GENERAL INDEX TO VOLUME XXXVIII

New scientific names of plants and the final members of new combinations are printed in bold-face type; synonyms and page numbers having reference to figures and plates, in Halies; and all other matter in ordinary type.

A

A Actinostemon concolor var. genuinus, 250 Adenogyne pachystachys, 251 Adenopeltis colliguaya, 250 Agropyron repens, 302, 307 Aludeia Cuspa, 162 Amplophus, 388 Apocynaceae, Studies in the, VIII, 119 Arboretum, Missouri Botanical Garden,

Forest Preserve of, 283
*Aspidosperma, 119; **Aspidosperma, 199; Fendleri, 185; **Assatum, 190; megaphyllum, 168; mysacuifolium, 169; oliganthum, 147; Pichonianum, 176; reductum, 156; Schultesii, 168; stegomeris, 178; Steyermarkii, 187

Aspidosperma, An interim revision of the genus, 119; anatomy of corolla in, 206; economic uses, 135; general morphology, 120; index to exsiccatae, 198; phylogeny of the series, 128; speciation, 131; systematic index, 202; taxonomy, 136; vernacular names, 135, 201

Associes, tree: at the Missouri Botanical Garden Forest Preserve, 287; in the Ozarks, 261

Astrephia, 450

В

*Bauhinia, 10; reflexa, 17; Storkii, 17 Bees in the Ozark areas, 274

Beilmann, August P., and Louis J. Brenner: The changing forest flora of the Ozarks, 283; The recent intrusion of forests in the Ozarks, 261

Bluegrass, 293: comparison of parts of plant, 358; designing a plant, 351; environmental factors in relation to treatment of, 338; flowering shoot, 301, 327, 328; growth of, 300, 368, 370–375; management of, 338; morphology of, 298; phytomers, 305, 360; rhizome, 308; seasonal interpretation of growth, 338; tillers, 300, 318

Boerhaavia erecta, 483
Brenner, Louis G., August P. Beilmann, and:
The changing forest flora of the Ozarks,
283; The recent intrusion of forests in
the Ozarks, 261

Brownea, 33 Drowneopsis, 36 C

Caesalpinoideae (subfamily of Leguminosae),

Caesalpinia, 87

Californian Delphiniums, Chromosome numbers of, 101

Cassia, 39; fruticosa var. gatunensis, 81; hispidula var. Killipii, 55; Maxonii, 77; oxyphylla var. dariensis, 79; stenocarpa var. stenocarpoides, 60; unica, 76

Cedar, Red, in the Ozarks, 267

Cercidium, 93

Chromosome numbers of Californian Delphiniums and their geographical occurrence, 101

Cnemidostacbys, 250 Colliguaya patagonica, 251 Copaifera, 26 Croton sebiferum, 251 Cynometra, 25

D

Delonix, 83

Delphiniums, Californian, Chromosome numbers of, and their geographical occurrence, 101; cytological observations, 101; geographical distribution, 105; meiosis in, 102, 103

Dialium, 38 Ditrisynia, 219

Dwyer, John D.: Cynometra of Panama, 25; Copaifera of Panama, 26

E

Ecology of the Ozark area, 261
Epling, Carl, Harlan Lewis, G. A. L. Mehlquist, and C. G. Wyckhoff: Chromosome numbers of Californian Delphiniums and their geographical occurrence, 101

Erosion in the Ozarks, 268
Etter, Alfred G.: How Kentucky Bluegrass
grows, 293

Excoecaria, 208, 209

Explorations in the Ozarks, early, 262, 266

F

Fires in the Ozarks, 269 Flora of Panama. Part V, Fasc. 3 (Leguminosae, second part), 1

(505)

^{*}Only the new entities are given in this General Index, since a full systematic index is included with the monograph.

St

T

Mora, 23

Forest flora of the Ozarks: The changing, 283; historic, 279; logging and its effects on the, 266

Fcrest Preserve of the Arboretum: Red Cedar in, 267; geology of the area, 283; history of, 287; land use, 286; principal soil types of, 284, 285; rocks underlying, 283; soils of the area, 284; tree associes, during a ten-year period, 287

Forests in the Ozarks: The recent intrusion of, 261; present resources of, 266

Game birds and animals of the Ozark region, 276

of Missouri Botanical Garden Geology: Forest Preserve, 283; of the Ozarks, 262, 283

Greenman, Jesse M., 95 Grimmeodendron eglandulosum, 250 Gussonia, 250 Gymnanthes, 250 Gymnostillingia, 208, 243

Haematoxylon, 93 Hemisotria, 388 Hippomane biglandulosa, 250 Historical account of the Ozarks vegetational aspect, 262 Hymenaea, 30

Indian Mounds in the Ozarks, 269

Juniperus virginiana in the Ozarks, 267

Kentucky bluegrass, How it grows, 293

Leguminosae of Panama (second part), 1 Lewis, Harlan, Carl Epling, G. A. L. Mehlquist, and C. G. Wyckhoff: Chromosome numbers of Californian Delphiniums and their geographical occurrence, 101 Lumber production in the Ozarks, 261, 266

Macrolobium, 21; Pittieri, 33 Maprounea, 209 Mehlquist, Gustav A. L., Harlan Lewis, Carl Epling, and C. G. Wyckhoff: Chromosome numbers of Californian Delphiniums and their geographical occurrence, 101

Meyer, F. G.: Valeriana in North America and the West Indies (Valerianaceae), 377 Meiosis in cells of Delphinium, 102 Microplumeria anomala, 197, 198 Microstachys ramosissima, 252 Missouri Ozarks: The changing forest flora of the, 268; The recent intrusion of forests in the, 261 Missouri Botanical Garden Forest Preserve:

forest flora of, 283; geology of, 283

Oat seedling, growth of, 319, 320 Ochrosia tuberculata, 198 Oligococe, 388 Ostreocarpus, 136 Ozarks: The changing forest flora of, 261; The recent intrusion of forests in the, 261

Panama, Flora of, Part V, Fasc. 3 (Leguminosae, second part), 1 Paralyxla macrophylla, 197 Parkinsonia, 93 Patrinia ceratophylla, 425; longifolia, 428 Peltogyne, 29 Peltophorum, 84 Peltospermum, 136; latisiliquum, 194; Patrisii, 194 Phyllactis mexicana, 450; obovata, 483; pratensis, 483 Phyllocarpus, 24 Poa pratensis, 293 Poeppigia, 22 Prairies in Missouri, 261 Prioria, 27

Rainfall: in the Ozarks, 270; records of, compared with growth of bluegrass, 315 Red Cedar in the Ozarks, 267 Rogers, David: A revision of Stillingia in the New World, 207

Salines in the Ozarks, 270 Sapium, 207, 209, 250 Sarothrostachys multiramea, 251 Schery, Robert W., Robert E. Woodson, Jr., and: Flora of Panama. Part V, Fasc. 3 (Leguminosae, second part), 1 Schinopsis quebracho-colorado, 198 Schizolobium, 286 Sebastiania, 209, 250 Seborium, 219

8

2

:

1

i-

3;

in

r.,

Seed production of Ozark plants, 272 Soils in the Ozarks, 268, 284; Indian mounds in relation to erosion of, 269; types of, 268, 285

*Stillingia, 219; Bodenbenderi, 222; diphtherina, 226; peruviana, 223; scutellifera,

Stillingia in the New World, A revision of, 207; generic relationships, 209; geography, 215; history, 208; index to exsiccatae, 252; index to scientific names, 257; subgeneric categories, 213; systematic criteria, 210; taxonomy, 219

Succession of forest trees in the Ozarks, 283 Swartzia, 3; simplex var. darienensis, 7

Tamarindus, 37 Thyroma, 136

Tragia corniculata, 250

Tree associations in the Forest Preserve of Missouri Botanical Garden Arboretum, 287 V

Valeriana in North America and the West Indies (Valerianaceae), 377; classification, 385; economic importance, 386; general morphology, 379; geographical distribution, 385; historical review, 378; index to exsiccatae, 485; index to scientific names, 501; taxonomy, 388

*Valeriana, 377; capitata ssp. acutiloba, 407, ssp. californica, 404, ssp. pubicarpa, 406; deltoidea, 459; densiflora var. affinis, 457, var. densiflora, 455; edulis ssp. ciliata, 428, ssp. procera, 430; X Ekmanii, 469; palmatiloba, 448; sitchensis ssp. Scouleri, 398, ssp. uliginosa, 399; sorbifolia var. barbareaefolia, 477, var. mexicana, 475; tanacetifolia, 480

W

Weather conditions in the Ozarks, 270 Wheat, growth in length of leaves and internodes of, 308

Woodson, Robert E., Jr.: Jesse More Greenman, 95; Studies in the Apocynaceae, VIII, An interim revision of the genus Aspidosperma, Mart. & Zucc., 119; and Robert W. Schery: Flora of Panama, Part V, Fasc. 3 (Leguminosae, second part), 1

Wyckoff, C. G., Harlan Lewis, Carl Epling, G. A. L. Mehlquist, and: Chromosome numbers of Californian Delphiniums and their geographical occurrence, 101

Z

Zea Mays, 307

^{*}Only the new entities are given in the General Index, since a full systematic index is included with the monograph.